

ORGANIZATION OF RESEARCH
in the
BIOLOGY DIVISION
of
OAK RIDGE NATIONAL LABORATORY

Summer 1951

ALEXANDER HOLLAENDER, Director
STANLEY F. CARSON, Asst. Director

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CYTOGENETICS

Cytogenetic Effects of Radiation

Paramecium

* R. F. Kimball Nenita Gaither
 Mary Kathryn King

Tradescantia

A. D. Conger D. S. Daniels
 Lucile M. Fairchild

Fungi

K. C. Atwood F. H. Mukai

Bacteriophage

A. H. Doermann Betty B. Hill

Maize

Drew Schwartz

Yeast

S. Pomper Kathryn M. Daniels

Research Participants

R. T. Brumfield Mary Case
N. H. Giles, Jr.
H. P. Riley

* Group Leader

** Asst. Group Leader

1 Consultant

2 ORINS Fellow

3 AEC-NRC Fellow

CYTOGENETICS, cont.

Effects of Radiation on Rate of Mitosis

- * Mary Esther Gaulden Marjorie Nix
J. Gordon Carlson¹ Georgia St. Amand
S. R. Tipton¹
R. W. Rogers²

Drosophila Genetics

W. K. Baker Elizabeth Sgourakis

Research Participant

J. H. Gregg

Radiation Protection

- * A. Hollaender R. B. Grayson
G. E. Stapleton Ruth W. Whittle
E. H. Anderson M. L. Morse
D. Billen A. W. Burke, Jr.
W. T. Burnett, Jr.

MAMMALIAN GENETICS AND DEVELOPMENT

Genetic Effects of Radiation in Mice

- * W. L. Russell Jane E. Crowell
Josephine S. Gower Mary B. Cupp
J. C. Kile, Jr. Gloria J. Jasny
Louis Wickham Elizabeth M. Kelly
Patricia A. Sarvella

Developmental Effects of Radiation in Mice

- * Liane B. Russell Mary H. Major

PATHOLOGY AND PHYSIOLOGY

Section Chief ----- J. Furth

Neutron and High Energy Radiation Effects on Mammals

A. C. Upton (Pathology) Peggy Ledford
K. W. Christenberry¹ (Cataract)
J. R. Thomson
E. L. Gadsden (Neoplasia)

Physiological and Chemical Effects of Radiation

M. C. Woods Mary M. Knoohuizen
R. H. Storey

Acute Radiation Injury and Protection

J. B. Kahn (Protection)
R. R. Bigelow¹ (Permeability)
Mary H. Ross (Permeability)

Histology and Radioautography

W. D. Gude Germaine Click

Research Participants

C. E. Anderson I. L. Campbell
J. K. Hampton, Jr.

MICROBIOLOGY

Tracer Studies on Metabolism

* S. F. Carson Betty A. Gwin
E. H. Mosbach Mary V. Long
E. F. Phares
F. W. Denison, Jr.²
J. M. Adams²

Research Participant

E. A. Delwiche

BIOCHEMISTRY

Studies on Nucleic Acids and Enzymes

Nucleic Acids

* W. E. Cohn M. Helen Jones
D. G. Doherty
J. X. Khym
E. Volkin

Proteolytic Enzymes

D. G. Doherty E. A. Lloyd
F. Vaslow

Biological Energy-transfer Systems

B. L. Strehler

Research Participant

J. E. Muldrey

Plant Physiology

* G. R. Noggle G. M. Cheniae
L. P. Zill Eleanor Schumacher
J. H. Taylor¹
Herbert Jonas³

Research Participants

J. S. Bangson
E. A. Ball
M. A. Chambers

BIOPHYSICS

General Physiology

* C. W. Sheppard	E. B. Darden, Jr.
J. S. Kirby-Smith	Marian Stewart
	Patty Jean Mathias

Photosynthesis

W. A. Arnold Jane T. Thompson

BIOPHYSICS, cont.

Research Participants

W. S. Wilde	Jack Ginsburg
J. N. Dent	R. L. Amy
E. L. Hunt	
R. R. Overman	

ORGANIC CHEMISTRY

(Members of the Chemistry Division working
in Biology Division quarters)

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** O. K. Neville	W. J. Skraba
G. A. Ropp	A. J. Weinberger
J. G. Burr, Jr.	V. F. Raaen
A. R. Jones	D. N. Hess
B. M. Benjamin ²	
Carl Douglass ²	

Research Participants

E. F. Hendley
R. M. Roberts
D. E. Pearson

Section Secretary - Penelope Basel

BIOMETRICS

Research Consultants of the ORNL Mathematics Panel

A. W. Kimball	G. J. Atta
Jack Moshman	

BIOLOGY LIBRARY

(Branch of the ORNL main library)

Barbara Randall	Azolene Goins
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A. J. Simmons, Jr., Clerk

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Lola B. Blacky, Stenographer

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